Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/06/2014 11/06/2014	Maksim Khashchuk

LM Start		Rating **	Α	Issue No.	7		
LM End		Issue Type +	Ма	Location *	N/A		
Category Earthen Levee			GPS La	atituc	le/Longitude		
Calegory			Start		End		
Item		s & Maintena	nce		0		0
пеш	Manuals	nuals			0		0
DWR ID	DWR_RD2	085_01_s _ 201	3_7				
		Action/	Comme	nts			
Inspector	Comments	: The O&M M	anual is	available a	t the	office.	

No Photos

LM Start		Rating **	Α	Issue No.		9	
LM End		Issue Type +	Ma	Location *	N/A		
Catagory	Category Earthen Levee				GPS Latitude/Longi		
Calegory				Start		End	
Itom	Item Emergency Supplies & Equipment				0		0
пеш					0		0
DWR ID	DWR_RD2	085_01_s _ 201	3_9				
Action/Comments							

No Photos

Inspector Comments: Flood fighting supplies are available at the River Club.

LM Start		Rating **	Α	Issue No.		14	
LM End		Issue Type +	Ма	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Flood Preparedness & Training				0		0	
Item					0		0
DWR ID DWR_RD2085_01_s _ 2013_14							
		Action/	Commer	nts			

Inspector Comments: The LMA has a flood fighting plan and training.

No Photos

* Location LS : Land Side N/A: Not Applicable WS : Water Side

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W: Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/06/2014 11/06/2014	Maksim Khashchuk

LM Start	0.70	Rating **	С	Issue No.		41	
LM End	0.79	Issue Type +	Ma	Location *		CR	
Category Earthen Levee				GPS La	e/Longitude		
Calegory				Start		End	
Item	, Vegetation				72 °	37.720408 °	
пеш			-121.29537	76 °	-121.294339 °		
DWR ID	DWR_RD2085_01_f _ 2013_41						
		Action/	Comme	nte			

Remove the wild growth other than native grasses from the levee slopes.

LM Start	2.24	Rating **	М	Issue No.		1	
LM End	2.26	Issue Type +	Ма	Location *		WS	
Category	ental	GPS Latitude/Longitude					
Calegory		Start		End			
DWR Erosion Survey				37.70309	94 °	37.703094	0
Item				121.274894 °		121.274894 °	
DWR ID							

Action/Comments

Inspector Comments: 09/20/2013: No significant change in erosion observed. More vegetation at the site.

12/04/2012: The erosion has progressed remarkably toward levee, extended to the up-and downstream of the original pocket erosion. Trees and dense bush are present at the site. Animal burrow holes are visible, and possibly can cause seepage.

09/22/2010: No significant change observed. There is little visibility due to seasonal grass on the berm and slope.

08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2014 Site ID:RD2085U01RM66.5]



No Photos

Direct view of the erosion. Note dense vegetation at the site.

Location + Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence LS: Land Side N/A: Not Applicable Acceptable N : Not Inspected/Rated WS : Water Side Minimally Acceptable C : Corrected U : Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/06/2014 11/06/2014	Maksim Khashchuk

LM Start	3.04	Rating **	С	Issue No.	29				
LM End	3.04	Issue Type +	Ма	Location *	WS				
Catagory	Category Earthen Levee					GPS Latitude/Longitude			
Category				Start		End			
Animal Control		ontrol		37.69625	6°	37.696256	0		
Item				-121.27687	7 °	-121.276877	0		
DWR ID	DWR_RD2	085_01_s _ 201	4_29						
Action/Comments									

Exterminate rodents and backfill and compact or grout burrows.

No Photos

Rating ** Issue No. LM Start 3.27 Ν 30 WS Issue Type + Ma Location * LM End 3.27 Earthen Levee GPS Latitude/Longitude Category Start End Trim / Thin Trees 37.693019° 37.693019° Item -121.277892 ° -121.277892 DWR RD2085 01 s 2014 30 DWR ID Action/Comments

No Photos

Rating ** Issue No. LM Start 3.28 С 15 3.28 Issue Type + Ma Location * WS LM End Earthen Levee GPS Latitude/Longitude Category Start End **Animal Control** 37.692916 37.692916° Item -121.277929 -121.277929 DWR ID DWR_RD2085_01_s _ 2012_15 Action/Comments

No Photos

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

* Location

Tree stumps.

LS : Land Side WS : Water Side

N/A: Not Applicable

A : Acceptable M : Minimally A : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/06/2014 11/06/2014	Maksim Khashchuk

LM Start	3.52	Rating **	С	Issue No.	37		
LM End	3.52	Issue Type +	Ma	Location *	LS		
Catagony	Category Earthen Levee					le/Longitude	
Calegory			Start		End		
ltom	Animal Co	Animal Control				37.689610 °	
item	Item				7°	-121.276257 °	
DWR ID	DWR_RD2085_01_s _ 2014_37						
Action/Comments							

No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

No Photos

LM Start	3.58	Rating **	A/W	Issue No.		2	
LM End	3.71	Issue Type +	Ма	Location *		WS	
Category	ental	GPS Latitude/Longitude					
Calegory		Start		End			
DWR Erosion Survey				37.68854	45 °	37.688545	0
item				-121.27629	98 °	-121.276298	0
DWR ID							

Action/Comments

Inspector Comments: 7/17/2014: No significant change observed. 09/10/2013: No significant change observed. 12/04/2012: This site has been documented before, and a cost estimate to repair has been prepared dated 05/09/2010. The fresh cut shows the erosion is developing. The berm width is at least 42 feet. Sticks were placed at three locations along the river bank, with 3 sticks 5 feet apart at each location. [2014 Site ID:RD2085U01RM67.7]

Photo 1 of 1: SJR2014_RD2085U01RM67.7_1.jpg

Direct view of the erosion.

LM Start	art 3.82 Rating ** C Issue No. 39						
LM End	3.82	Issue Type +	Ma	Location *	WS		
Category Earthen Levee GPS Latitude/Longitude							
Start End							
Item	Animal Co	ontrol		37.6855	52 °	37.685552 °	
item				-121.2766	37°	-121.276637 °	
DWR ID DWR_RD2085_01_s _ 2014_39							
Action/Comments							

Exterminate rodents and backfill and compact or grout burrows.

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/06/2014 11/06/2014	Maksim Khashchuk

LM Start	4.18	Rating **	М	Issue No.		54
LM End	4.45	Issue Type +	Ма	Location *	WS	
Category	Earthen L	evee		GPS Latitude/Longitude		
Start End						End
Item	Vegetatio	n		37.6818	86 °	37.681332 °
item				-121.2723	33 °	-121.267518 °
DWR ID DWR_RD2085_01_s _ 2012_54						
	Action/Comments					

Remove the wild growth other than native grasses from the levee slopes.

Photo 1 of 1 : FA_2014_RD2085_113_54_20141001_00015.jpg



11/03/2011 Waterside vegetation needs to be maintained on the top 20' of the waterside slope.

LM Start	4.28	Rating **	С	Issue No.	42		
LM End	4.28	Issue Type +	Ma	Location *		CR	
Category	evee	GPS Latitude/Longitude					
Calegory				Start		End	
Item		rface / Depres	ssions /	37.6817	52 °	37.681752 °	
пеш	Rutting			-121.2705	42 °	-121.270542 °	
DWR ID DWR_RD2085_01_s _ 2013_42							
	Action/Comments						

Repair depressions or ruts in the crown or slope.

Tree stumps.

No Photos

LM Start	4.38	Rating **	N	Issue No.		32	_
LM End	4.38	Issue Type +	Ма	Location *	LS		
Category	evee		GPS Latitude/Longitude				
Category	Start I						
Item	Trim / Thi	n Trees		37.6816	05 °	37.681605	0
пеш				-121.2688	82 °	-121.268882	0
DWR ID DWR_RD2085_01_s _ 2012_32							
	Action/Comments						

Photo 1 of 1: FA_2014_RD2085_113_32_20141001_00006.jpg

11/03/2011 Large stump on landside slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating

A : Acceptable
N : Not Inspected/Rated
M : Maintenance Deficiancy
Ob : Design & System Obsolescence
U : Unacceptable
A/W : Acceptable but Monitor & Maintain
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	11/06/2014 11/06/2014	Maksim Khashchuk

LM Start	4.61	Rating **	С	Issue No.		34	_	
LM End	4.71	Issue Type +	Ma	Location *	LS			
Category	Earthen L	evee		GPS Latitude/Longitude				
Calegory		Start		End				
Itom	Vegetatio	n		37.68039	4 °	37.676892	0	
пеш	Item -121.264707 ° -121.269781							
DWR ID DWR_RD2085_01_s _ 2012_34								
		Action/	Comme	nts				

Remove the wild growth other than native grasses from the levee slopes.

No Photos

Rating ** Issue No. LM Start 4.93 M 22 Location * LS Issue Type + Ma LM End 4.93 Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 37.677830° 37.677830° Item -121.268769 ° -121.268769 DWR ID DWR RD2085 01 f 2013 22 Action/Comments

Remove the wild growth other than native grasses from the levee slopes.

No Photos

* Location LS : Land Side

N/A: Not Applicable WS : Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.70	11/06/2014 11/06/2014	Maksim Khashchuk

LM Start	0.11	Rating **	С	Issue No.	4		
LM End	0.11	Issue Type +	Ma	Location *	WS		
Catagory	evee		GPS La	atitud	le/Longitude		
Calegory	Category			Start		End	
Item	Animal Co	Animal Control			70°	37.706270 °	
item				-121.2736	35 °	-121.273635 °	
DWR ID	DWR_RD2	085_02_s _ 201	14_4				
		Action/	Comme	nts			
Exterminate rodents and backfill and compact or grout burrows.							

No Photos

LM Start	0.37 Rating ** C Issue No. 3				3	
LM End	0.66	Issue Type +	Ma	Location *	CR	
Category	evee		GPS Latitude/Longitude			
Calegory			Start		End	
Item	Crown Surface / Depressions /			37.70989	93 °	37.713716 °
пеш	Rutting			-121.27202	23 °	-121.269682 °
DWR ID	DWR_RD2	085_02_s _ 201	14_3			
Action/Comments						
Add appro	priate grav	el or road bas	se. Grad	le and comp	act	

No Photos

+ Issue Type Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	11/06/2014 11/06/2014	Maksim Khashchuk

LM Start	0.21	Rating **	U	Issue No.		1			
LM End	0.23	Issue Type +	Ma	Location * WS		WS			
Category	Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End			
Item	Erosion /	Bank Caving	37.6827	98 °	37.683052 °				
item		-121.262059 ° -121.261851							
DWR ID DWR_RD2085_03_s _ 2014_1									

Action/Comments

Schedule repair of erosion site prior to the next inspection.
Inspector Comments: Erosion of the waterside levee slope has been observed. The erosion is about 3 feet tall vertical from the slope to the base of projected levee toe.

Photo 1 of 1: FA_2014_RD2085_115_1_20141110_00005.jpg



View of the erosion at the waterside levee toe.